

Attorney Docket No.: **DEX-0054**
Inventors: **Robbins et al.**
Serial No.: **09/426,548**
Filing Date: **October 22, 1999**
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In the Claims:

Please cancel claim 1, without prejudice.

Please amend the claims as follows:

2. (amended) A method of diagnosing hereditary non-polyposis colorectal cancer in a patient comprising:

(a) obtaining a DNA or RNA sample from a patient; and
(b) screening the DNA or RNA sample with the oligonucleotide probe of claim 9, wherein binding of the oligonucleotide probe to the DNA or RNA sample is indicative of hereditary non-polyposis colorectal cancer.

3. (amended) A method for predicting susceptibility of a patient to developing hereditary non-polyposis colorectal cancer comprising:

(a) obtaining a DNA or RNA sample from a patient; and
(b) screening the DNA or RNA sample with the oligonucleotide probe of claim 9, wherein binding of the oligonucleotide probe to the DNA or RNA sample is indicative of a susceptibility to hereditary non-polyposis colorectal cancer.

Please add the following new claim.

9. An oligonucleotide probe to hMLH1 mutant 1, hMLH1 mutant 2, hMSH2 mutant 1, hMSH2 mutant 2, or hMSH2 mutant 3.